

**ABSTRACT OF THE DISCLOSURE**

A thermoplastic polymer film is directly extruded onto the heated surface of a metal condensing heat exchanger. Any thermoplastic polymer capable of being adhered to the metal surface of the condensing heat exchanger can be utilized. Preferably, the thermoplastic polymer is a polyester, a polyolefin with an added maleate or tackifier to ensure adhesion, polyetherimide, polyethersulfone, polysulfone or polyimide. The thermoplastic film must be resistant to the conditions of the condensing heat exchanger, such as the high temperature flue vent gases and the acidic condensate formed from condensation.

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